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preestablished values and compare results. Standardization requires extensive communication as well as an exchange of test specimens among various laboratories as an additional check.

Lofty ideals regarding quality assurance procedures frequently fall prey to practicality in laboratories that are attempting to provide quality and timely information with limited resources. A reasonable balance between quality and quantity can often be achieved through good judgment and common sense.

Investigating Serious Disease Outbreaks—How Much is Enough?

Investigating significant animal losses from disease in production situations is often very difficult. Gathering meaningful retrospective information and diagnostic results late in the course of a disease occurrence may be difficult. The local veterinarian and laboratory personnel with specific interests in the enterprise where the problem is occurring should be involved in any thorough diagnostic workup and investigation.

There is a tendency to seek redress when significant animal losses have occurred in production populations. This motivation often directs producers toward agencies that can provide support in various ways, such as possible litigation in an attempt to assign blame to perceived product failures. Identification and application of some of the criteria described in this column may be helpful in determining the outcome of such investigations (see *Investigating Significant Animal Losses*).

Conclusion

Effective and timely communication among animal owners, practicing veterinarians, laboratory diagnosticians, and other involved parties is the most essential factor in resolving diagnostic problems. Practitioners vary considerably in the extent to which they believe the laboratory should proceed with diagnostics, and this can be resolved only by communication.

Modern producers are increasingly relying on the efficient application of the principles of biosecurity and preventive medicine to save time and money. These principles are based on accurate and reliable diagnostic information. The practicing veterinarian must evaluate laboratory results in context and relate them to the production environment.

Education curricula and continuing education programs need to place more emphasis on the importance of diagnostic skills and rational use of laboratory support. Diagnosticians must participate in the development and communication of practical applications of diagnostic expertise in progressive livestock industries.



